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U. S. DEPARTMENT OF AGRICULTURE FOREST SERVICE FOREST PRODUCTS LABORATORY MADISON, WIS.

In Cooperation with the University of Wisconsin



LIST OF PUBLICATIONS OF INTEREST TO ARCHITECTS, BUILDERS, ENGINEERS, AND RETAIL LUMBERMEN

This list includes publications that present the results of research by the Forest Products Laboratory in this particular field of wood products research.

Single copies of the various items may be obtained free upon request from the Director, Forest Products Laboratory, Forest Service, U.S. Department of Agriculture, P.O. Box 5130, Madison, WI 53705. Classroom quantities are not available because of limited printing and storage facilities.

Title	:	Author	:	Publication and date

Buildings and Structures

**Wood structures: A design guide and commentary compiled by the task committee on status-of-the-art: Wood, committee on wood, ASCE structural division.	:	Task Committee of the American Society of Civil Engineers	:	ASCE Manual 1975.
Testing of a full-scale house under simulated snowloads and windloads.	:	Tuomi, R. L., & McCutcheon, W. J.	:	USDA For. Serv. Res. Pap. FPL 234. 1974
	:		:	

**This manual is available for \$12 (\$6 to members of ASCE) from the American Society of Civil Engineers, 345 East 47th Street, New York, NY 10017.

Title	Author	Publication and date
Simplified design procedures for glued-laminated bridge decks.	McCutcheon, W. J., & Tuomi, R. L.	USDA For. Serv. Res. Pap. FPL 233. 1974.
Design criteria for large structural glued-laminated timber beams using mixed species of visually graded lumber.	Moody, R. C.	USDA For. Serv. Res. Pap. FPL 236. 1974.
Bending strength and stiffness of bridge piles after 85 years in the Milwaukee River.	Bendtsen, B. A.	USDA For. Serv. Res. Note FPL-0229. 1974.
Procedure for design of glued-laminated orthotropic bridge decks.	McCutcheon, W. J., & Tuomi, R. L.	USDA For. Serv. Res. Pap. FPL 210. 1973.
Design procedure for glued-laminated bridge decks.	Tuomi, R. L., & McCutcheon, W. J.	For. Prod. J. 23(6): 36-42. June 1973.
Wood structures can resist hurricanes.	Sherwood, G. E.	Civil Engineering-ASCE: 91-94. Sept. 1972.
Glued laminated timber bridges--reality or fantasy.	Bohannon, B.	Presented at Annual Meeting of AITC, Scottsdale, Ariz., Mar. 13-16, 1972.
FPL timber bridge deck research.	Bohannon, B.	J. of Struc. Div., Proc. of the ASCE 98(ST3), Proc. Pap. 8779:729-740. Mar. 1972.
Lateral stability of beam and deck structure.	Jenkinson, P. M.	J. of Struc. Div., Proc. of the ASCE 98(ST3):599-609. Mar. 1972.
Shear stiffness of two-inch wood decks for roof systems.	Zahn, J. J.	USDA For. Serv. Res. Pap. FPL 155. 1972.
FPL houses meet needs of low-income families.	Sherwood, G. E.	USDA For. Serv. Res. Pap. FPL 173. 1972.

Title	Author	Publication and date
Advancements in timber bridges through research and engineering.	Tuomi, R. L.	Proc. of 13th Annual Colo. State Univ. Bridge Eng. Conf.: 34-61. 1972.
*Construction guides for exposed wood decks.	Anderson, L. O., Heebink, T. B., & Oviatt, A. E.	USDA Agr. Handb. No. 432. 1972. GPO, \$1.25.
Timber bridges go mod.	Tuomi, R. L., & Bohannan, B.	Wood Preserving Mag., Amer. Wood Preservers' Inst., 1971.
Wood products and their use in construction.	Freas, A. D.	Unasylva 25(2,3,4), Nos. 101-102-103. 1971.
Lower housing costs through improved design and wood utilization.	Liska, J. A.	J.For. 68(7): 399-403. July 1970.
*Wood-frame house construction.	Anderson, L. O.	USDA Agric. Handb. No. 73. Rev. 1970. GPO, \$2.25.
Longtime performance of sandwich panels in Forest Products Laboratory experimental unit.	Sherwood, G. E.	USDA For. Serv. Res. Pap. FPL 144. 1970.
Structural timber research at Forest Products Laboratory.	Werren, F.	J. of Struc. Div., Proc. of the ASCE 95(ST12), Proc. Pap. 6980:2891-2906. Dec. 1969.
*Low-cost wood homes for rural America--Construction manual.	Anderson, L. O.	USDA Agric. Handb. No. 364. 1969. GPO, \$1.
*Designs for low-cost wood homes.	Anderson, L. O., & Zornig, H. F.	USDA For. Serv. unnumbered pub. 1969. GPO.
Wood structures survive Hurricane Camille's winds.	Zornig, H. F., & Sherwood, G. E.	USDA For. Serv. Res. Pap. FPL 123. 1969.

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Title	Author	Publication and date
Experimental pole-type structure--Initial evaluation.	Doyle, D. V.	USDA For. Serv. Res. Pap. FPL 115. 1969.
New building ideas goal of current FPL research.	Streng, F. A.	For. Prod. J. 18(4): 16, 17. Apr. 1968.
Structural engineering research in wood.	Bohannon, B.	J. of Struc. Div., Proc. of the ASCE 94(ST2), Proc. Pap. 5784:403-416. Feb. 1968.
Moisture distribution in wood-frame walls in winter.	Duff, J. E.	For. Prod. J. 18(1): 61-64. Jan. 1968.
House foundation of treated wood after 30 years' service.	Bendtsen, B. A., & Eslyn, W. E.	USDA For. Serv. Res. Pap. FPL 98. 1968.
Construction of Nu-frame research house.	Anderson, L. O.	USDA For. Serv. Res. Pap. FPL 88. 1968.
Wood--structural enigma or engineering reality.	Liska, J. A.	J. of Struc. Div., Proc. of the ASCE 93(ST2), Proc. Pap. 5164:1-7. Apr. 1967.
Influence of environmental factors on moisture content of wood building products in the United States of America.	Duff, J. E., Wengert, E. M., & Youngs, R. L.	Presented at RILEM/CIB Symp. on Moisture Problems in Buildings. Helsinki, Finland. 2-22: 1-11. Aug. 1965.
Houses can resist hurricanes.	Anderson, L. O., & Smith, W. R.	USDA For. Serv. Res. Pap. FPL 33. 1965.
Increases in deflection and stresses caused by ponding of water on roofs.	Kuenzi, E. W., & Bohannon, B.	For. Prod. J. 14(9): 421-424. Sept. 1964.
A study of wind stresses in three typical pole building frames.	Parker, J. E.	USDA For. Serv. Res. Note FPL-049. 1964.
Wood for use in bulk storage structures.	Wood, L. W.	USDA For. Serv. Res. Note FPL-041. 1964.

Title	Author	Publication and date
Wood structure performance in an earthquake in Anchorage, Alaska.	Anderson, L. O., & Liska, J. A.	USDA For. Serv. Res. Pap. FPL 16. 1964.
Built-up beams for light-frame and pole construction.	Doyle, D. V.	FPL Rep. 2230. 1962.
Segmental rafters for gothic-roofed farm buildings.	Forest Products Laboratory	FPL Tech. Note 261. 1958.

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Effects of layer characteristics on the properties of three-layer particleboards.	Geimer, R. L., Montrey, H. M., & Lehmann, W. F.	For. Prod. J. 25(3): 19-29. 1975.
Properties of structural particleboards from Douglas-fir forest residues.	Lehmann, W. F., & Geimer, R. L.	For. Prod. J. 24(10): 17-25. Oct. 1974.
*Panel products to choose from.	Werren, F.	USDA 1974 Yearb. of Agric., p. 112-115. 1974.
Particleboard from lodgepole pine forest residue.	Heebink, B. G.	USDA For. Serv. Res. Pap. FPL 221. 1974.
Development in particleboard and other composite products.	Lehmann, W. R.	J. For. 72(11):706-708. Nov. 1974.
How species and board densities affect properties of exotic hardwood particleboards.	Vital, B. R., Lehmann, W. F., & Boone, R. S.	For. Prod. J. 24(12): 37-45. Dec. 1974.
Properties of particleboards at various humidity conditions.	McNatt, J. D.	USDA For. Serv. Res. Pap. FPL 225. 1974.
Basic properties of three medium-density hardboards.	Superfesky, M. J., & Lewis, W. C.	USDA For. Serv. Res. Pap. FPL 238. 1974.

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Evaluation of models for predicting tensile strength of 2- by 4-inch lumber.	: Gerhards, C. C., & Ethington, R. L.	: For. Prod. J. 24(12): 4654. 1974.
Properties of structural particleboards.	: Lehmann, W. F.	: For. Prod. J. 24(1): 19-26. 1974.
Flexural strength of glued-laminated timber beams containing coarse-grain southern pine lumber.	: Moody, R. C.	: USDA For. Serv. Res. Pap. FPL 222. 1974.
Beam strength: Time-dependent characteristics of prestressed beams.	: Bohannon, B.	: USDA For. Serv. Res. Pap. FPL 226. 1974.
Hardboard: A potential outlet for waxed container waste.	: Steinmetz, P. E.	: Tappi 47(2):74-77. Feb. 1974.
Visual method for measuring formaldehyde release from resin-bonded boards.	: Harkin, J. M., Obst, J. R., & Lehmann, W. F.	: For. Prod. J. 24(1): 27-30. Jan. 1974.
Elastic bearing constants for sheathing materials.	: Wilkinson, T. L.	: USDA For. Serv. Res. Pap. FPL 224. 1974.
Effects of equilibrium moisture content changes on hardboard properties.	: McNatt, J. D.	: For. Prod. J. 24(2): 29-35. Feb. 1974.
Producing hardboards from red oak.	: Steinmetz, P. E.	: USDA For. Serv. Res. Pap. FPL 219. 1973.
A perspective on structural lumber grading.	: Ethington, R. L., & Fleischer, H. O.	: For. Prod. J. 23(9): 54, 55. Sept. 1973.
A method for studying the stiffness and internal friction of individual fibers.	: James, W. L.	: Wood Sci. 6(1): 30-38. July 1973.
Evolution of glulam strength criteria.	: Bohannon, B., & Moody, R. C.	: For. Prod. J. 23(6): 19-24. June 1973.
Ultrasonic location of defects in softwood lumber.	: McDonald, K. A.	: Timber Trades J. S/17-S/19. Jan. 1973.

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Effect of pyrolytic temperatures on the longitudinal strength of dry Douglas-fir.	Schaffer, E. L.	J. of Testing & Evaluation 1(4):319-329. 1973.
Wood siding: Installing, finishing, maintaining.	Forest Products Laboratory	USDA Home & Garden Bull. 203. 1973.
Mastic construction adhesives in fire exposure.	River, B. H.	USDA For. Serv. Res. Pap. FPL 198. 1973.
Longtime performance of trussed rafters with different connection systems: 5-year evaluation.	Wilkinson, T. L.	USDA For. Serv. Res. Pap. FPL 204. 1973.
FPL examines new structural material: Press-Lam.	Schaffer, E. L.	So. Lbrman. 225(2800): 139-141. Dec. 15, 1972.
FPL Press-Lam process: Fast, efficient conversion of logs into structural products.	FPL Press-Lam Research Team	For. Prod. J. 22(11): 11-18. Nov. 1972.
Irreversible dimensional changes in panel materials.	Heebink, B. G.	For. Prod. J. 22(5): 44-48. May 1972.
Accelerated aging: Residual weight and flexural properties of wood heated in air at 115° to 175° C.	Millett, M. A., & Gerhards, C. C.	Wood Sci. 4(4):193-201. Apr. 1972.
Strength criteria of glued-laminated timber.	Bohannon, B.	NBS, Pub. 361, Vol. 1: 625-632. Performance Concept in Buildings. Proc. of Joint RILEM-ASTM-CIB Symp., May 2-5, 1972, Philadelphia, Pa. Mar. 1972.

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Lateral stability of beam and deck structure.	Jenkinson, P. M., & Zahn, J. J.	J. of Struc. Div., Proc. of the ASCE 98(ST3), Proc. Pap. 8786:599-609. Mar. 1972.
Buckling due to linear expansion of hardboard siding.	McNatt, J. D.	For. Prod. J. 23(1): 37. 1972.
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Selection and use of wood products for home and farm building.	Anderson, L. O.	Agric. Inf. Bull. 311. Rev. 1972.
Some views on large structural particleboard panels.	Heebink, B. G.	USDA For. Serv. Res. Note FPL-0220. 1972.
Reconstituted products from oak.	Lewis, W. C., & Heebink, B. G.	Oak Symp. Proc., USDA For. Serv., NE For. Exp. Sta., Upper Darby, Pa.: 106-110. 1971.
Board materials from wood residues.	Lewis, W. C.	USDA For. Serv. Res. Note FPL-045. Rev. 1971.
Effect of fire-retardant treatment on bending strength of wood.	Gerhards, C. C.	USDA For. Serv. Res. Pap. FPL 145. 1971.
Some stress-grading criteria and methods of grade selection for dimension lumber.	Ethington, R. L.	USDA For. Serv. Res. Pap. FPL 148. 1971.
Glued-laminated timber research at the Forest Products Laboratory.	Moody, R. C.	For. Prod. J. 20(9): 81-86. Sept. 1970.
Dependence of MOE on strength ratio and specific gravity: 4-inch-thick southern pine.	Gerhards, C. C.	For. Prod. J. 20(6):37, 38. June 1970.
Further report on seasoning factors for modulus of elasticity and modulus of rupture.	Gerhards, C. C.	For. Prod. J. 20(5):40, 41. May 1970.

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Large glued-laminated beams with AITC 301A-69 grade tension laminations.	Moody, R. C., & Bohannan, B.	USDA For. Serv. Res. Pap. FPL 146. 1970.
Method for determining sample size when deriving tolerance limits for a timber species.	Bendtsen, B. A., & Rattner, F.	Mater. Res. & Stand., ASTM 9(6):30, 31. June 1969.
Particleboard.	Forest Products Laboratory	USDA For. Serv. Res. Note FPL-072. Rev. 1969.
Static and dynamic strength and elastic properties of ponderosa and loblolly pine.	James, W. L.	Wood Sci. 1(1):15-22. July 1968.
Surface flammability of various wood-base building materials.	Forest Products Laboratory	USDA For. Serv. Res. Note FPL-0186. 1968.
Insulation board, hardboard, and particleboard.	Lewis, W. C.	FPL unnumbered pub. Provisional copy. 1967.
Charring rate of selected woods--Transverse to grain.	Schaffer, E. L.	USDA For. Serv. Res. Pap. FPL 69. 1967.
Tension parallel-to-grain properties of southern pine dimension lumber.	Doyle, D. V., & Markwardt, L. J.	USDA For. Serv. Res. Pap. FPL 84. 1967.
Machine grading--Theory and practice.	Hilbrand, H. C., & Miller, D. G.	For. Prod. J. Pt. 1. 16(11):28-34, Nov. 1966: pt. 2. 16(12):36-40, Dec. 1966.
A hand instrument for evaluating wood by compression.	Reineke, L. H., & Davis, C. N.	For. Prod. J. 16(5): 15-18. May 1966.
Anisotropy in wood.	Ethington, R. L., & Hilbrand, H. C.	Orientation Effects in the Mechanical Behavior of Anisotropic Materials. Spec. Tech. Pub. No. 405, ASTM:21-38. 1966.
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Paneling and flooring from low-grade hardwood logs.	: Heebink, B. G., & : Compton, K. C.	: USDA For. Serv. Res. : Note FPL-0122. 1966.
Review of information related to the charring rate of wood.	: Schaffer, E. L.	: USDA For. Serv. Res. : Note FPL-0145. 1966.
Flexural behavior of large glued-laminated beams.	: Bohannan, B.	: USDA For. Serv. Res. : Pap. FPL 72. 1966.
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Structural property estimation from density samples for western woods.	: Ethington, R. L.	: For. Prod. J. 15(10): : 422-425. Oct. 1965.
Effect of wall linings on fire performance within a partially ventilated corridor.	: Schaffer, E. L., & : Eickner, H. W.	: USDA For. Serv. Res. : Pap. FPL 49. 1965.
Insulating board, hardboard, and other structural fiberboards.	: Lewis, W. C., & : Schwartz, S. L.	: USDA For. Serv. Res. : Note FPL-077. 1965.
Derivation of fiber stresses from strength values of wood poles.	: Wood, L. W., & : Markwardt, L. J.	: USDA For. Serv. Res. : Pap. FPL 39. 1965.
Brittleheart in <u>Eucalyptus robusta</u> grown in Hawaii.	: Skolmen, R. G., & : Gerhards, C. C.	: For. Prod. J. 14(12): : 549-554. Dec. 1964.
Tensile, compressive, and shearing stresses developed in red oak as it dries.	: Youngs, R. L., & : Bendtsen, B. A.	: For. Prod. J. 14(3): : 113-118. Mar. 1964.
Bending strength and stiffness of plywood.	: Forest Products : Laboratory	: USDA For. Serv. Res. : Note FPL-059. 1964.
Overlays for lumber--An old product in a new dress.	: Fleischer, H. O., & : Heebink, B. G.	: USDA For. Serv. Res. : Note FPL-035. 1964.

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<u>Components</u>		
Allowable bending stresses of wood for use in portable wood ladders.	Werren, F.	USDA For. Serv. Gen. Tech. Rep. FPL-5. 1975.
Stressed-skin panel deflections and stresses.	Kuenzi, E. W., & Zahn, J. J.	USDA For. Serv. Res. Pap. FPL 251. 1975.
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Plywood and veneer: If we need it--construction plywood from hardwoods is feasible.	Lutz, J., & Jokerst, R. W.	Plywood & Panel 14(9): 18-20. Feb. 1974.
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Compressive and shear properties of polyamide honeycomb cores.	Kuenzi, E. W., & Jenkinson, P. M.	USDA For. Serv. Res. Note FPL-0202. Rev. 1974.
Mechanical properties of diffusion-bonded titanium sandwich constructions.	Kuenzi, E. W.	USDA For. Serv. Res. Pap. FPL 218. 1973.
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Design parameters for torsion of sandwich strips having trapezoidal, rectangular, and triangular cross sections.	Montrey, H. M., & Kuenzi, E. W.	USDA For. Serv. Res. Pap. FPL 156. 1973.

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Lateral stability of wood beam-and-deck systems.	Zahn, J. J.	J. of Struc. Div., Proc. of the ASCE 99(ST7), Proc. Pap. 9829:1391-1408. July 1973.
Edgewise compressive and fatigue properties of brazed titanium sandwich constructions.	Stevens, G. H.	USDA For. Serv. Res. Pap. FPL 196. 1973.
A low-cost window--Without jambs.	Chern, J.	USDA For. Serv. Res. Note FPL-0221. 1973.
Methods for measuring die-cutting shear strength of hardboard.	McNatt, J. D.	For. Prod. J. 22(6): 32-36. June 1972.
Predicting performance of hardboards in I-beams.	Ramaker, T. J., & Davister, M. D.	USDA For. Serv. Res. Pap. FPL 185. 1972.
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Proposed low-cost window unit.	Heebink, B. G.	USDA For. Serv. Res. Note FPL-0211. 1971.
Veneers, plywood, board products.	Steinmetz, P. E.	Wood & Wood Prod. 75(6): 49. June 1970.
Design stresses for hardboard--Effect of rate, duration, and repeated loading.	McNatt, J. D.	For. Prod. J. 20(1): 53-60. Jan. 1970.
Residual stresses in curved laminated wood beams.	Zahn, J. J.	J. of Struc. Div., Proc. of the ASCE 95(ST12), Proc. Pap. 6977:2873-2890. Dec. 1969.
Diaphragm action of diagonally sheathed wood panels.	Doyle, D. V.	USDA For. Serv. Res. Note FPL-0205. 1969.

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Some fatigue characteristics of glass-reinforced composite laminates.	Boller, K. H.	Amer. Soc. of Mech. Eng. 70-DE-6:1-8. 1969.
Fatigue fundamentals for composite materials.	Boller, K. H.	Composite Materials: Testing & Design, ASTM STP 460:217-235. 1969.
Longtime performance of trussed rafters: Initial evaluation.	Wilkinson, T. L.	USDA For. Serv. Res. Pap. FPL 93. 1968.
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A study of the strength of short and intermediate wood columns by experimental and analytical methods.	Parker, J. E.	USDA For. Serv. Res. Note FPL-028. 1964.

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<u>Joints and Fastenings</u>		
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Moisture cycling of trussed rafter joints.	: Wilkinson, T. L.	: USDA For. Serv. Res. : Pap. FPL 67. 1966.
Strength of wood joints made with nails, staples, or screws.	: Scholten, J. A.	: USDA For. Serv. Res. : Note FPL-0100. 1965.
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Nail-withdrawal resistance of American woods.	: Forest Products : Laboratory	: USDA For. Serv. Res. : Note FPL-093. 1965.
Performance of nail-glued joints of plywood to solid wood.	: Doyle, D. V.	: USDA For. Serv. Res. : Note FPL-042. 1964.
Nailing dense hardwoods.	: Forest Products : Laboratory	: USDA For. Serv. Res. : Note FPL-037. 1964.
Effect of joint geometry on tensile strength of finger joints.	: Selbo, M. L.	: For. Prod. J. 13(9): : 390-400. Sept. 1963.
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Insulation and Moisture Control

Lab-field correlations for airborne sound transmissions through party walls.	: Jones, R. E.	: USDA For. Serv. Res. : Pap. FPL 240. 1975.
Weathering characteristics of particleboard.	: Geimer, R. L., : Heebink, B. G., & : Hefty, F. V.	: USDA For. Serv. Res. : Pap. FPL 212. 1973.

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Condensation problems: Their prevention and solution.	Anderson, L. O.	USDA For. Serv. Res. Pap. FPL 132. 1972.
A climate index for estimating potential decay in wood structures above ground.	Scheffer, T. C.	For. Prod. J. 21(10): 25-31. Oct. 1971.
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